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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,508	07/22/2003	Sang Won Chung	CHUN3059/EM	5802
23364 BACON & TH	7590 12/27/2006 OMAS PLIC	EXAMINER		
625 SLATERS	LANE	CAO, PHUONG THAO		
FOURTH FLO ALEXANDRIA			ART UNIT	PAPER NUMBER
neem nom	1, 711 22311		2164	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		12/27/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Ap	Application No. Applicant(s)					
Office Action Summary		10.	/623,508	CHUNG, SANG	CHUNG, SANG WON			
		Exa	aminer	Art Unit				
			uong-Thao Cao	2164				
Period fo	The MAILING DATE of this commun or Reply	ication appears	on the cover shee	t with the correspondence	address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum st- re to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE of 37 CFR 1.136(a). nunication. atutory period will app will, by statute, cause	OF THIS COMMU In no event, however, ma ly and will expire SIX (6) the application to become	JNICATION.  By a reply be timely filed  MONTHS from the mailing date of this are ABANDONED (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) file	ed on <i>07 Noven</i>	nber 2006.					
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
, —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1 and 5-8 is/are pending in	the application						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
·	6)⊠ Claim(s) <u>1 and 5-8</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
,	Claim(s) are subject to restrict	ction and/or elec	ction requirement.					
Applicati	on Papers							
	The specification is objected to by th	e Evaminer						
, —			d or h) Ohiected	to by the Examiner				
10/	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
,—	under 35 U.S.C. § 119	- <b> </b>						
•	•	f fi	-itu umalan 35 U.S.	C \$ 110(a) (d) or (f)	•			
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
•	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
•	the attached detailed office detail	in for a not or an	o continue copies					
Attachmen	at(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)				No(s)/Mail Date of Informal Patent Application				
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:								
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Page 2

1. This action is in response to Amendment filed on 10/02/2006.

2. Claim 1 has been amended and claims 2-3 and 9 have been cancelled. Currently, claims

1 and 5-8 are pending.

Response to Arguments

3. Applicant's arguments filed on 10/02/2006 have been fully considered but they are not

persuasive.

Regarding <u>Applicant's</u> arguments that <u>Shah et al.</u> fails to disclosure or suggest a method of controlling a user application program in which a request for an arbitrary data block:

(a) causes a file streaming readout function to initially identify a priority file with which the data block is associated;

- (b) checks whether the data block is locally stored; and
- (c) retrieves the data block from a predetermined server if it is not locally stored.

Shah et al. teaches in paragraphs [0018], [0020], [0141], [0156] and [0188] a request for application code and data can be satisfied by local cache or the streaming application server, wherein requested data is identified by Application ID, File ID and Block ID (see [0132], [0156], [0187] and [0188]) and the application file in a Streamed Application Set or the file contain the appropriate bits ([0134], and [0141], [0318]-[0323]) is equivalent to Applicant's "priority file".

Application/Control Number: 10/623,508 Page 3

Art Unit: 2164

Regarding <u>Applicant</u>'s argument that <u>Shah et al.</u> does not teach pre-storage of the priority blocks on a "predetermined server", <u>Shah et al.</u> teaches the creation of the Streamed Application Set (SAS) (see [0084]-[0090] and [0318]-[0319]) based on identifying sequences of frequently accessed application pages so each SAS pages or application file in the SAS is equivalent to <u>Applicant's</u> "priority file". This set of SAS application files or pages is initially stored in the server system (see [0087] and [0090]) and is only streamed to the client when needed.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1 and 5-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Shah et al. (Publication No US 2002/0091763).

As to claim 1, Shah et al. teach:

Art Unit: 2164

"A method of controlling a user application program executed in a client computer" (see [0082]-[0085]), comprising the step of:

"identifying data to which the user application program refers" (see [0087]-[0090] wherein data identified and used to build the SAS form of the application is equivalent to data as illustrated in Applicant's claim language);

"grouping data to which the user application program refers for a predetermined period of time into a priority file corresponding to at least one arbitrary data block, based on data that have been required by the user application program upon previous execution of the user application program, and storing the priority file in a predetermined server" (see [0084], [0087] and [0090] wherein generating a Streamed Application Set (SAS) based on profiling data ([0087], [0156] and [0177]) is equivalent to Applicant's "grouping data...", each SAS page is equivalent to Applicant's "priority file", and the server system is equivalent to Applicant's "predetermined server")

"if the user application program does not include a pointer to a file streaming readout function, replacing an existing pointer to a readout function with a substitute pointer to the file streaming readout function" (see [0141] wherein the disclosure of Client Streaming File System instead of the operating system serves all file system requests made by application implies that the application must include some pointer to functions of the streaming file system instead of functions of the operating system; and in order for application to execute properly in the client, the pointer to functions of file system of the operating system (for instance, a readout function) must be replaced by pointer to functions of the streaming file system (for instance, a file

Art Unit: 2164

streaming readout function) as illustrated in Applicant's claim language), wherein the file streaming readout function carries out the following steps:

"receiving a file readout request for the arbitrary data block from the user application program" (see [0020] and [0202] wherein a request for code or data is equivalent to Applicant's "a file readout request"; also see [0141]);

"identifying the priority file corresponding to the arbitrary data block by referring to an index storage means containing data offsets for the data blocks, sizes of the data blocks and prioprity file identifiers associated with the data blocks in the index storage means" (see [0324] for using information from the Size Offset File Table (SOFT) (see [0319] and [0320]) to quickly access the proper file within the directory for serving the proper file blocks to the client wherein the SOFT table is equivalent to Applicant's "index storage means", the proper file is equivalent to Applicant's "priority file" and the proper file block is equivalent to Applicant's "the arbitrary data block"; also see [0141], [0156], [0187]-[0188] and [0202]);

"determining whether the priority file is stored in the client computer" (see [0188], [0196] and [0197] wherein each application file is equivalent to Applicant's "priority file");

"if it is determined that the priority file has been stored in the client computer, forwarding data of the file to the user application program" (see [0197] wherein the code or data represents Applicant's "priority file"); and

"if it is determined that the file has not yet been stored in the client computer, receiving some of the data of the file from said predetermined server with the priority file stored therein and storing the some of the data in the client computer and forwarding the received data to the

Art Unit: 2164

user application program, the predetermined server being connected to the client computer through a network" (see [0188], [0196], [0197] and [0202]).

As to claim 5, this claim is rejected based on arguments given above for rejected claim 1 and is similarly rejected including the following:

#### Shah et al. teach:

"wherein the step of receiving the data of the file from the predetermined server with the file stored therein and caching the received data in the client computer" (see [0186] and [0202]).

As to claim 6, this claim is rejected based on arguments given above for rejected claim 1 and is similarly rejected including the following:

#### Shah et al. teach:

"identifying a second client computer with the file stored therein" (see [0664], [0679], and [0694]-[0699] wherein "page" is equivalent to Applicant's "file"); and

"receiving the file from the identified second client computer and transferring the received filed to the user application program" (see [0679] and [0694]-[0699]).

As to claim 7, this claim is rejected based on arguments given above for rejected claim 1 and is similarly rejected including the following:

### Shah et al. teach:

"while the file readout request is not received from the user application program, receiving data expected to be required by the user application program from a second client

Application/Control Number: 10/623,508

Art Unit: 2164

computer with the data stored therein and storing the received data" (see [0142], [0154], [0210] and [0694] wherein the disclosure of prefetching and getting data using peer-caching mechanism

Page 7

is equivalent to Applicant's claim language).

As to claim 8, this claim is rejected based on arguments given above for rejected claim 7

and is similarly rejected including the following:

Shah et al. teach:

"wherein determination on the data expected to be required by the user application

program is made based on data that have been required by the user application program upon

previous execution of the user application program" (see [0087] and [0210]).

Application/Control Number: 10/623,508

Art Unit: 2164

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phuong-Thao Cao whose telephone number is (571) 272-2735.

The examiner can normally be reached on 8:30 AM - 5:00 PM (Mon - Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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**PTC** 

December 20, 2006

Page 8